

## CLAIMS

Having thus described the invention, we claim:

1. An apparatus for spraying powder coating material having a powder flow path,  
5 wherein said powder flow path has a charging surface for triboelectrically charging powder coating material which comes in contact with said charging surface, said charging surface comprising a negative tribocharging material selected from the group consisting of: polyamide resin blends, fiber reinforced polyamides, aminoplastic resins, acetal polymers combined with a fluorinated hydrocarbon resin and acetal copolymers  
10 combined with a fluorinated hydrocarbon resin, and mixtures thereof.
2. The spray apparatus of claim 1 further comprising one or more air passages formed through said charging surface, said air passages being in a fluid communication with a source of compressed air.
- 15 3. The spray apparatus of claim 1 further comprising an electrical conductor provided adjacent said charging surface, said electrical conductor being connected to one of an electrical ground or a source of electrical potential.
4. The spray apparatus of claim 3 further comprising one or more air  
20 passages formed through said charging surface, said air passages being in a fluid communication with a source of compressed air.
5. The apparatus of claim 1 wherein said negative tribocharging material comprises an acetal homopolymer with polytetrafluoroethylene fibers.
- 25 6. The apparatus of claim 1 wherein said negative tribocharging material comprises DELRIN AF.
7. The apparatus of claim 1 wherein said negative tribocharging material comprises polyamide resin blends.

8. The apparatus of claim 1 wherein said negative tribocharging material comprises aminoplastic resins.

9. The apparatus of claim 1 wherein said negative tribocharging material comprises fiber reinforced polyamides.

5 10. The apparatus of claim 1 wherein said negative tribocharging material comprises an acetal copolymer.